APPENDIX A

REFERENCES

Government Publications

Department of the Army, Corps of Engineers*

Engineer Regulations	
ER 1110-1-803	Constructibility
ER 1110-2-100	Periodic Inspection and Continuing Evaluation of Completed Civil Works Structures
ER 1110-2-1806	Earthquake Design and Analysis for Corps of Engineers Projects
ER 1130-2-339	Inspection of Local Flood Protection Projects (RC5 DAEN-CWC-40)
Technical Manuals	
TM 5-818-1	Soils and Geology: Procedures for Foundation Design of Buildings and Other Structures (Except Hydraulic Structures)
Engineer Manuals	
EM 1110-1-1804	Geotechnical Investigations
EM 1110-1-2101	Working Stresses for Structural Design
EM 1110-1-2009	Architectural Concrete
EM 1110-2-301	Landscape Planting at Floodwalls, Levees & Embankment Dams
EM 1110-2-1410	Interior Drainage of Leveed Urban Areas: Hydrology
EM 1110-2-1601	Hydraulic Design of Flood Control Channels

^{*} Available from: Corps of Engineers Publication Depot, 2803 52nd Avenue, Hyattsville, MD 20781.

EM 1110-2-2502 29 Sep 89	
EM 1110-2-1901	Soil Mechanics Design - Seepage Control
EM 1110-2-1902	Stability of Earth and Rock-Fill Dams
EM 1110-2-1903	Bearing Capacity of Soils
EM 1110-2-1904	Soil Mechanics Design - Settlement Analysis
EM 1110-2-1905	Design of Finite Relief Well Systems
EM 1110-2-1906	Laboratory Soil Testing
EM 1110-2-1907	Soil Sampling
EM 1110-2-1908	Instrumentation of Earth and Rock-Fill Dams (Ground-Water & Pore Pressure Observations) (Part 1)
EM 1110-2-1911	Construction Control for Earth and Rockfill Dams
EM 1110-2-1913	Design and Construction of Levees
EM 1110-2-2000	Standard Practice for Concrete
EM 1110-2-2102	Waterstops and Other Joint Materials
EM 1110-2-2103	Details of Reinforcement - Hydraulic Structures
EM 1110-2-2906	Design of Pile Structures and Foundations
EM 1110-2-4300	Instrumentation for Concrete Structures
EM 1120-2-109	Federal Participation in Major Drainage Improvements
Guide Specifications	
CW 02215	Plastic Filter Fabric
CW 03301	Cast-in-Place Structural Concrete
CW 03305	Mass Concrete

- Agostinelli, V. M., et al. 1981 (Feb). "Program Criteria Specifications Document for Computer Program TWDA for Design and Analysis of Inverted-T Retaining Walls and Floodwalls." Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Al-Hussani, M. M., and Perry, E. B. 1976 (Sep). "Effect of Horizontal Reinforcement on Stability of Earth Masses," Technical Report S-76-11, U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Al-Hussani, M. M., and Perry, E. B. 1978 (Mar). "Field Experiment of Reinforcement Earth Wall," Journal of the Geotechnical Engineering Division, ASCE, Vol 104, No. GT3, pp 307-322. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- American Concrete Institute. "Building Code Requirements for Reinforced Concrete," ACI 318, Detroit, Mich. Available from: American Concrete Institute, P. O. Box 19150, Redford Station, Detroit, MI 48219.
- American Concrete Institute. 1967. "Ultimate Strength Design Handbook, ACI Publication SP-17. Available from: American Concrete Institute, P. O. Box 19150, Redford Station, Detroit, MI 48219.
- ANSI A58.1. Minimum Design Loads for Buildings and Other Structures, American National Structures Institute, Inc., 1430 Broadway; New York, NY 10018.
- Applied Technology Council (ATC). 1981 (Oct). Seismic Design Guidelines for Highway Bridges, FHWA Report No. FHWA/RD-81/081. Available from: NTIS, Springfield, VA 22161.
- ASTM D 1586. "Standard Method for Penetration Test and Split-Barrel Sampling of Soils." Available from: ASTM, 1916 Race St., Philadelphia, PA 19103.
- ASTM D 3441-79. "Standard Method for Deep Quasi-Static, Cone and Friction-Cone Penetration Tests of Soil." Available from: ASTM, 1916 Race St., Philadelphia, PA 19103.
- Baguelin, F., Jezequel, J. F., and Shields, J. F. 1978. <u>The Pressuremeter and Foundation Engineering</u>, Trans-Tech Publications, Rockport, MA.
- Bowles, J. E. 1982. <u>Foundation Analysis and Design</u>, 3rd ed., McGraw-Hill, New York.
- Brooker, E. W., and Ireland, H. O. 1965 (Feb). "Earth Pressures At-Rest Related to Stress History," <u>Canadian Geotechnical Journal</u>, Vol 2, No. 1, pp 1-15.

- Caquot, A., and Kerisel, J. 1948. <u>Tables for the Calculation of Passive Pressure</u>, Active Pressure, and Bearing Capacity of Foundations (translated by M. A. Bec, London), Gauthier-Villars, Paris.
- Carroll, R. G., Jr., and Murphy, J. C. 1985 (May-Jun). "Drainage Objective: Prefabricated Drainage Composites," <u>Geotechnical Fabrics Report</u>, Vol 3, No. 3, pp 14-18.
- Casagrande, A. 1937. "Seepage Through Dams," <u>Contributions to Soil</u>
 <u>Mechanics, 1925-1949</u>, Boston Society of Civil Engineers, Boston, MA,
 pp 295-336.
- Casagrande, Leo. 1973 (Feb). "Comments of Conventional Design of Retaining Structures," <u>Journal, Soil Mechanics and Foundations Division, American Society of Civil Engineers</u>, Vol 99, No. SM 2, pp 181-197. Available from: ASCE Publication Fulfillment, 345 East 47th Street, New York, NY 10017.
- Cedergren, Harry R. 1967. <u>Seepage, Drainage, and Flow Nets</u>, John Wiley and Sons, New York.
- Collin, J. C. 1986 (May). "Earth Wall Design," Ph.D. Dissertation, University of California, Berkeley. Available from: University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.
- Criblock Retaining Walls of America, Inc. "Criblock Interlocking Concrete Criblock." Available from: Criblock Retaining Wall of America, Inc., P. O. Box 849, Sierra Madre, CA 91024.
- Danish Geotechnical Institute. 1978. "Code of Practice for Foundation Engineering," Danish Geotechnical Institute, Copenhagen, Denmark, Bulletin No. 32, p 52.
- Das, B. M. 1984. <u>Principles of Foundation Engineering</u>, Brooks/Cole Engineering Division, Monterey, CA.
- Department of the Navy. 1982a (May). "Soil Mechanics," NAVFAC DM-7.1.

 Available from: Department of the Navy, Naval Facilities Engineering
 Command, 200 Stovall St., Alexandria, VA 22332.
- Department of the Navy. 1982b (May). "Foundations and Earth Structures," NAVFAC DM-7.2. Available from: Department of the Navy, Naval Facilities Engineering Command, 200 Stovall St., Alexandria, VA 22332.
- Doublewal Corp. 1984. "Doublewal Interlocking Precast Retaining Wall System Field Manual." Available from: Doublewal Corp., 59 East Main St., Plainville, CT 06062.

- Driscoll, D. D. 1979 (Dec). Retaining Wall Design Guide, Foundation Services, Inc., Portland, OR, Prepared for USDA Forest Service. Available
 from: USDA Forest Service Region 6, 319 S.W. Pine St., Portland, OR
 97208.
- Duncan, J. M., and Buchignani, A. L. 1976 (Jun). "An Engineering Manual for Settlement Studies," Department of Civil Engineering, University of California, Berkeley.
- Elias, V. 1986. "Retaining Walls," Draft Bridge Design Manual, Part 4, Structures, Section 5, Pennsylvania Department of Transportation.

 Available from: V. Elias and Associates, 6809 Carlynn Court, Bethesda, MD 20817.
- Evergreen Systems, Inc. "Retaining Walls." Available from: Evergreen Systems, Inc., P. O. Box 345, Kings Point, NY 11754.
- Forsyth, R. A. 1979. "Alternate Earth Reinforcements," <u>Proceedings, Symposium on Earth Reinforcement, American Society of Civil Engineers</u>, pp 358-370. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Frondistou-Yannas, S. 1985 (Jan). "Corrosion Susceptibility of Internally Reinforced Soil Retaining Structures," Report No. FHWA-RD-83-105, U. S. Department of Transportation, Federal Highway Administration. Available from: Federal Highway Administration, Turner-Fairbank Highway Research Center, 6300 Georgetown Pike, McLean, VA 22101.
- Geotechnical Control Office. 1982 (Jun). <u>Guide to Retaining Wall Design</u>, Geoguide 1, Engineering Development Department, Hong Kong. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Godfrey, K. A., Jr. 1984 (Dec). "Retaining Walls: Competition or Anarchy?", <u>Civil Engineering</u>, Vol 54, No. 12, pp 48-52. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Harr, M. E. 1977. Mechanics of Particulate Media, McGraw-Hill, New York.

 Available from: McGraw-Hill International Book Company, 1221 Avenue of the Americas, New York, NY 10020.
- Harr, M. E. 1962. Groundwater and Seepage, McGraw-Hill, New York.
- Hilfiker Company. "R. S. E. Construction Guide." Available from: Hilfiker Company, 3900 Broadway, Eureka, CA 95501.

- Ingold, T. S. 1979b. "The Effect of Compaction on Retaining Walls," <u>Geotechnique</u>, Vol 29, No. 3, pp 265-283.
- Jackura, K. A. 1984 (May). "Results of Minor Research on Bar-Mat Pullout Tests," CA/TL-84-08, California Department of Transportation, Sacramento,
- Jaky, J. 1944. "The Coefficient of Earth Pressure At-Rest," <u>Journal, Society of Hungarian Architects and Engineers</u>, Budapest, Hungary, pp 355-358.
- Jones, C. J. F. P. 1985. <u>Earth Reinforcement and Soil Structures</u>,
 Butterworths, London. Available from: U. S. Army Engineer Waterways
 Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Kenney, T. C. 1959. Discussion of "Geotechnical Properties of Glacial Clays," by T. H. Wu, <u>Journal of the Soil Mechanics and Foundations Division</u>, ASCE, Vol 85, No. SM3, pp 67-79.
- Kraemer, S. R., and Smith, A. D. 1986 (Oct). "Geocomposite Drains," Vol I,
 Engineering Assessment and Preliminary Guidelines, Report No. FHWA-RD86-171, U. S. Department of Transportation, Federal Highway Administration. Available from: Federal Highway Administration, 6300 Georgetown
 Pike, McLean, VA 22101.
- Leary, R. M., and Klinedinst, G. L. 1984 (May). "Retaining Wall Alternates," Proceedings, 34th Annual Highway Geology Symposium, Atlanta, GA. Available from: Federal Highway Administration, Geotechnical and Materials Branch, 400 7th St., S.W., Washington, DC 20590.
- Liu, Tony C., and Gleason, Scott. 1981 (Dec). "Strength Design of Reinforced Concrete Hydraulic Structures," Technical Report SL-80-4, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Available from: US Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Long, N. T., et al. 1984 (May). "Repair of a Reinforced Earth Wall," Proceedings, <a href="International Conference on Case Histories in Geotechnical Engineering, Vol 1, pp 335-339, University of Missouri-Rolla, Rolla, MO. <a href="Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, <a href="Mol Ms 39180.
- Marcuson, W. F., and Bieganousky, W. A. 1977 (Nov). "SPT and Relative Den sity in Coarse Sands," <u>Journal of the Geotechnical Engineering Division</u>, ASCE, Vol 103, No. GT11, pp 1295-1309.

- Massarsch, K. R. 1979. "Lateral Earth Pressure in Normally Consolidated Clays," Proceedings of the Seventh European Conference on Soil Mechanics and Foundation Engineering, Brighton, England, Vol 2, pp 245-249.
- Matsuo, M., Kenmochi, S., Yagi, H. 1978 (Sep). "Experimental Study on Earth Pressure of Retaining Wall by Field Tests," Soils and Foundations, Japanese Society of Soil Mechanics and Foundation Engineering, Vol 18, No. 3, pp 27-41. Available from: Japanese Society of Soil Mechanics and Foundation Engineering, Suga-yama Building-4F, Kanda Awaji-cho 2-23 Chiyoda-ku, Tokyo 101, Japan.
- McGee, P. E. 1985 (Nov). "Reinforced Earth Wall Strip Serviceability Study," Special Research Study No. 8405, Geotechnical Engineering Bureau, Office of Materials and Research, Georgia Department of Transportation, Forest Park, GA. Available from: Engineering Design Unit, Georgia Department of Transportation, Office of Materials and Research, 15 Kennedy Drive, Forest Park, GA 30050.
- McGown, A., et al. 1985. "The Load-Strain-Time Behavior of Tensor Geogrids,"

 <u>Proceedings, Conference on Polymer Grid Reinforcement</u>, pp 11-17, Thomas
 Telford Ltd., London. Available from: U. S. Army Engineer Waterways
 Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- McKittrick, D. 1979. "Design Construction, Technology, and Performance of Reinforced Earth Structures," Proceedings, Symposium on Earth Reinforcement, American Society of Civil Engineers, pp 596-616. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Meyerhof, G. G. 1956. "Penetration Tests and Bearing Capacity of Cohesion-less Soils," <u>Journal of the Soil Mechanics and Foundations Divisions</u>, ASCE, Vol 82, No. SM1, pp 1-19.
- Mitchell, J. K., Villet, W. C. B., and DiMillio, A. F. 1984 (Dec). "Soil Reinforcement for Stabilization of Earth Slopes and Embankments," Public Roads, U. S. Department of Transportation, Vol 48, No. 3, pp 88-95. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Mitchell, J. K., and Villet, W. C. B., eds. 1986. "Reinforcement of Earth Slopes and Embankments," 4 Vols, National Cooperative Highway Research Program Project 24-2, National Research Council, Transportation Research Board, Washington, DC. Available from: National Cooperative Highway Research Program, 2101 Constitution Avenue, N.W., Washington, DC 20418.
- Mosher, Reed L., and Pace, Michael E. 1982 (Jun). <u>User's Guide: Computer Program for Bearing Capacity Analyses of Shallow Foundations (CBEAR)</u>, Instruction Report K-82-7, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.

- Pace, Michael E, Noddin, Virginia R., 1987 (Oct). "Sliding Stability of Concrete Structures (CSLIDE)," Instruction Report ITL-87-5. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Pace, Michael E., Williams, Dennis R., Wolff, Thomas F., and Mosher, Reed. 1984 (Sep). "Seepage Analysis of Confined Flow Problems by the Method of Fragments (CFRAG)," Instruction Report K-84-8. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Peck, R. B., and Bazaraa, A. S. 1969. "Discussion on Settlement of Spread Footings on Sand," <u>Journal of the Soil Mechanics and Foundations Division</u>, ASCE, Vol 95, No. SM3, pp 905-909.
- Peck, R. B., Hanson, W. E., and Thornburn, T. H. 1974. <u>Foundation Engineer-ing</u>, 2nd. ed., Wiley, New York.
- Robertson, P. K., and Campanella, R. G. 1983. "Interpretation of Cone Pene tration Tests; Parts I and II," <u>Canadian Geotechnical Journal</u>, Vol 20, No. 4, pp 718-745.
- Schmertmann, J. H. 1975. "Measurement of In-Situ Strength," <u>Proceedings of the Conference on In-Situ Measurement of Soil Properties</u>, ASCE, pp 55-138.
- Schwab, G. O., et al. 1981. <u>Soil and Water Conservation Engineering</u>, John Wiley, New York, 3rd edition. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Seed, H. B. 1976 (Sep). "Evaluation of Soil Liquefaction Effects on Level Ground During Earthquakes," <u>Liquefaction Problems in Geotechnical Engineering</u>, ASCE annual convention and exposition, Philadelphia, PA, preprint 2752, pp 1-104.
- Seed, H. B., Arango, I., and Chan, C. K. 1975. "Evaluation of Soil Liquefac tion Potential During Earthquakes," <u>Report No. EERC 75-28</u>, Earthquake Engineering Research Center, College of Engineering, University of California, Berkeley, CA.
- Seed, H. B., and Idriss, I. M. 1982. "Ground Motions and Soil Liquefaction During Earthquakes," Earthquake Engineering Research Institute, University of California, Berkeley, CA.
- Seed, H. B., and Whitman, R. V. 1970. "Design of Earth Retaining Structures for Dynamic Loads," <u>ASCE Specialty Conference, Lateral Stresses in the</u>
 Ground and Design of Earth Retaining Structures, pp 103-147.

- Shields, D. H., and Tolunay, A. Z. 1973. "Passive Pressure Coefficients by Method of Slices," <u>Journal of the Soil Mechanics and Foundations Division</u>, ASCE, Vol 99, No. SM12, pp 1043-1053.
- Sibley, E. A. 1967. "Backfill Adjacent to Structures," Proceedings of the Montana Conference on Soil Mechanics and Foundation Engineering, Department of Civil Engineering, Montana State University, Bozeman, MT. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Smith, A. D., and Kraemer, S. R. 1987 (Feb). "Creep of Geocomposite Drains,"

 <u>Proceedings, Geosynthetic '87 Conference</u>, New Orleans, LA, Vol 2,
 pp 422-433. Available from: U. S. Army Engineer Waterways Experiment
 Station, P. O. Box 631, Vicksburg, MS 39180.
- Spangler, M. G., and Mickle, J. 1956. "Lateral Pressure on Retaining Walls Due to Backfill Surface Loads," Highway Research Board Bulletin 141, pp 1-18.
- Tcheng, Y., and Iseux, J. 1972. "Essais de Butee en Vraie Grandeur et Con straintes Engendrees par une Surcharge Rectangulaire sur un Mur Vertical," Proceedings, 5th European Conference on Soil Mechanics and Foundation Engineering, Madrid.
- Tensar Corp., "Tensar." 1984. Available from: The Tensar Corp., 1210 Citizens Parkway, Morrow, GA 30260.
- Terzaghi, K. 1934. "Large Retaining Wall Tests," <u>Engineering News Record</u>, Vol 85, February 1--April 19.
- Terzaghi, K. 1943. Theoretical Soil Mechanics, John Wiley, New York.
- Terzaghi, K., and Peck, R. B. 1948. <u>Soil Mechanics in Engineering Practice</u>, John Wiley, New York. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Tracy, Fred T. 1977a (Aug). "An Interactive Graphics Finite Element Method Grid Generator for Two-Dimensional Problems," Miscellaneous Paper K-77-5, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Tracy, Fred T. 1977b (Aug). "An Interactive Graphics Post-Processor for Finite Element Method Static Analyses," Miscellaneous Paper K-77-4, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.

- Tracy, Fred T. 1983 (Sep). "User's Guide for a Plane and Axisymmetric Finite Element Program for Steady-State Seepage Problems," Instruction Report K-83-4, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- Tschebatarioff, G. 1949. "Large Scale Earth Pressure Tests with Model Flexible Bulkheads," Final Report to U. S. Navy, Bureau of Yards and Docks, Princeton University.
- U. S. Army Engineer Division, Ohio River. 1958 (Jun). "Final Report on Full-size Floodwall (T-type) Stability Test." Available from HQUSACE Library.
- U. S. Army Engineer Waterways Experiment Station. 1956 (Oct). "Investigation of Underseepage and Its Control," Technical Memorandum No. 3-424. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- U. S. Army Engineer Waterways Experiment Station. 1960 (Apr). "The Unified Soil Classification System," Technical Memorandum No. 3-357. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- U. S. Army Engineer Waterways Experiment Station. 1962 (Jun). Technical Report TR3-604. Engineering Properties of Fine-Grained Mississippi Valley Alluvial Soils Meander Belt and Blackswamp Deposits. Available from:
 U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- U. S. Army Engineer Waterways Experiment Station. 1980 (Aug). <u>Rock Testing Handbook</u>, <u>Standard and Recommended Methods</u>. Available from: U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180.
- U. S. Army Engineer Waterways Experiment Station. 1984. Shore Protection Manual, Vol 2 of 2, Vicksburg, MS. Available from: Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.
- Vesic, A. S. 1975. "Bearing Capacity of Shallow Foundations," <u>Foundation</u>
 <u>Engineering Handbook</u>, Hans F. Winterkorn and Hsai-Fang, ed., Van Nostrand
 Reinhold Co., New York.
- VSL Corporation. 1984. "Retaining Earth." Available from: VSL Corporation, 101 Albright Way, Los Gatos, CA 95030.
- Westergaard, H. M. 1933. "Water Pressures on Dams During Earthquakes,"

 <u>Transaction, American Society of Civil Engineers</u>, Vol 98, pp 418-433.

 Available from: ASCE Publication Fulfillment, 345 East 4th St., New York, NY 10017.

- Whitman, R. V., and Liao, S. 1985 (Jan). <u>Seismic Design of Gravity Retaining</u>
 <u>Walls</u>, Miscellaneous Paper GL-85-1, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS 39180.
- Winterkorn, H. F., and Fang, H-Y., eds. 1975. <u>Foundation Engineering Hand-book</u>, Van Nostrand-Reinhold, New York.
- Wu, T. H. 1966. Soil Mechanics, Allyn and Bacon, Inc., Boston, MA.